

# SEQUENCE LISTING

<110> COGENT NEUROSCIENCE, Inc.  
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<120> COMPOSITIONS AND METHODS FOR DIAGNOSING  
 AND TREATING CONDITIONS, DISORDERS, OR DISEASES INVOLVING  
 CELL DEATH

<130> 10001-005-999

<140> Not Assigned

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<170> FastSEQ for Windows Version 4.0

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<212> DNA

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 ctgccccag gccttctgcc ctttgtgggt gttgagctca ccgcccaccc acaggcactc 360  
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 Pro His Pro Ser Glu Pro Gly Val Leu Asp Cys Leu Gly Pro Cys His  
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 Leu Leu Pro Leu Leu Ser Pro Gly Ser Pro Cys Trp Val Leu Gly Leu  
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 Thr Ile Thr Ser Leu Pro Pro Gly Leu Leu Pro Phe Val Gly Val Glu



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 35 40 45  
 Ser Pro Cys Trp Val Leu Gly Leu His Phe Ser Leu His Pro Pro Ser  
 50 55 60  
 Ala Ala Ser Ala Ser His Ala Leu Thr Ile Thr Ser Leu Pro Pro Gly  
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 Leu Leu Pro Phe Val Gly Val Glu Leu Thr Ala His Pro Gln Ala Leu  
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 tcaactgccc caggccttct gccctttgtg ggtgttgagc tcaccgcca cccacaggca 240  
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 Gly Ser Pro Cys Trp Val Leu Gly Leu His Phe Ser Leu His Pro Pro  
 35 40 45  
 Ser Ala Ala Ser Ala Ser His Ala Leu Thr Ile Thr Ser Leu Pro Pro  
 50 55 60  
 Gly Leu Leu Pro Phe Val Gly Val Glu Leu Thr Ala His Pro Gln Ala  
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 Gln Ala Gln Asn Gln Gln Gln Thr Glu Gly Val Lys Thr Glu Glu Ser  
 35 40 45





Met Trp His Met Ser Ile Ala Leu Ser Leu Pro Ser Cys Cys Val Leu  
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 <212> PRT  
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 Gln Ile Ser Lys Gln Leu Ser Glu Glu Tyr Glu Arg Ile Val Asn Pro  
 35 40 45  
 Glu Lys Ala Thr Glu Asp Ala Lys Pro Val Lys Ile Lys Glu Glu Pro



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                   20                  25                  30  
 Glu Pro Val Ser Asp Ile Thr Phe Pro Val Ser Glu Glu Leu Glu Ala  
                   35                  40                  45  
 Asp Leu Ala Ser Gly Asp Gln Ser Leu Pro Met Gly Val Leu Gly Ala  
                   50                  55                  60  
 Gln Ser Glu Arg Phe Pro Ser Asn Leu Glu Val Glu Ala Ser Pro Gln  
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 Ala Ser Ser Ala Glu Val Asn Ala Ser Pro Leu Trp Asn Leu Ala His  
                   85                  90                  95  
 Val Lys Met Glu Pro Gln Glu Ser Glu Glu Gly Asn Val Ser Gly His  
                   100                  105                  110  
 Gly Val Leu Gly Ser Asp Val Phe Glu Glu Pro Met Ser Gly Met Ser  
                   115                  120                  125  
 Glu Ala Gly Ile Pro Gln Ser Pro Asp Asp Ser Asp Ser Ser Tyr Gly  
                   130                  135                  140  
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<213> Homo sapiens

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<213> Homo sapiens

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      20          25          30
Leu Trp Asn Leu Ala His Val Lys Met Glu Pro Gln Glu Ser Glu Glu
      35          40          45
Gly Asn Val Ser Gly His Gly Val Leu Gly Ser Asp Val Phe Glu Glu
      50          55          60
Pro Met Ser Gly Met Ser Glu Ala Gly Ile Pro Gln Ser Pro Asp Asp
65          70          75          80
Ser Asp Ser Ser Tyr Gly Ser His Ser Thr Asp Ser Leu Met Gly Ser
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Ser Pro Val Phe Asn Gln Arg Cys Lys Lys Arg Met Arg Lys Ile
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<212> DNA

<213> Homo sapiens

<400> 102

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atgcttctcc tctttggaat ctggcccatg tga      33
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<210> 103

<211> 10

<212> PRT

<213> Homo sapiens

<400> 103

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Met Leu Leu Leu Phe Gly Ile Trp Pro Met
 1          5          10
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<210> 104

<211> 216

<212> DNA

<213> Homo sapiens

<400> 104

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atggagcctc aagaaagtga agaaggcaat gtctctgggc atggtgtgct gggcagtgat      60
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<213> Homo sapiens

<400> 115

Met Ser Glu Ala Gly Ile Pro Gln Ser Pro Asp Asp Ser Asp Ser Ser  
1 5 10 15  
Tyr Gly Ser His Ser Thr Asp Ser Leu Met Gly Ser Ser Pro Val Phe  
20 25 30  
Asn Gln Arg Cys Lys Lys Arg Met Arg Lys Ile  
35 40

<210> 116

<211> 90

<212> DNA

<213> Homo sapiens

<400> 116

atgactcaga tagcagctat ggttccact ccactgacag cctcatgggg tcctccctg 60  
ttttcaacca gcgctgcaag aagaggatga 90

<210> 117

<211> 29

<212> PRT

<213> Homo sapiens

<400> 117

Met Thr Gln Ile Ala Ala Met Val Pro Thr Pro Leu Thr Ala Ser Trp  
1 5 10 15  
Gly Pro Pro Leu Phe Ser Thr Ser Ala Ala Arg Arg Gly  
20 25

<210> 118

<211> 72

<212> DNA

<213> Homo sapiens

<400> 118

atggttccca ctccactgac agcctcatgg ggtcctcccc tgttttcaac cagcgctgca 60  
agaagaggat ga 72

<210> 119

<211> 23

<212> PRT

<213> Homo sapiens

<400> 119

Met Val Pro Thr Pro Leu Thr Ala Ser Trp Gly Pro Pro Leu Phe Ser  
1 5 10 15  
Thr Ser Ala Ala Arg Arg Gly  
20

<210> 120

<211> 57

<212> DNA

<213> Homo sapiens





Glu Val Arg Ser Ser Arg Pro Ala  
20

<210> 132  
<211> 39  
<212> DNA  
<213> Homo sapiens

<400> 132  
atggaaaaaa ccccatctct actaaaaata caaaattag 39

<210> 133  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 133  
Met Glu Lys Thr Pro Ser Leu Leu Lys Ile Gln Asn  
1 5 10

<210> 134  
<211> 33  
<212> DNA  
<213> Homo sapiens

<400> 134  
atgcctgtaa tcccagctac tcaggaaggc tga 33

<210> 135  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 135  
Met Pro Val Ile Pro Ala Thr Gln Glu Gly  
1 5 10

<210> 136  
<211> 542  
<212> DNA  
<213> Homo sapiens

<400> 136  
tcgacccacg cgtccgggac aatagtgtag gttatggatg gaggtgtcgg tactaaattg 60  
aataacgagt aaataatctt acttgggtag agatggcctt tgccaacaaa gtgaactgtt 120  
ttggttggtt taaactcatg aagtatgggt tcagtggaaa tgtttggaac tctgaaggat 180  
ttagacaagg ttttgaaaag gataatcatg ggtagaagg aagtgtttga aagtcacttt 240  
gaaagttagt tttgggccag cacggtagct cacccttgta atcccagcac tttgggaggc 300  
tgaggtgggt agattacttg agcccaggaa ttcaagacca gcctgggcaa catggtgaaa 360  
ccctgtttct ataaaaaata atctgggctt tgtagcatat gcctgtggtc ccagctactg 420  
aggaggctga ggtgggagga ttgcttgagc ccaggaggca gaggttgagc tgagccaagg 480  
tcacgtcact gcactctagc ctgggcaaca gagtaagaca aaaaaaaaaa aaaagggcgg 540  
cc 542

<210> 137







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1          5          10          15
Met Gly

<210> 149
<211> 30
<212> DNA
<213> Homo sapiens

<400> 149
atggtgaaac cctgtttcta taaaaaataa

<210> 150
<211> 9
<212> PRT
<213> Homo sapiens

<400> 150
Met Val Lys Pro Cys Phe Tyr Lys Lys
  1          5

<210> 151
<211> 75
<212> DNA
<213> Homo sapiens

<400> 151
atgcctgtgg tcccagctac tgaggaggct gaggtgggag gattgcttga gcccaggagg
cagaggttgc agtga

<210> 152
<211> 24
<212> PRT
<213> Homo sapiens

<400> 152
Met Pro Val Val Pro Ala Thr Glu Glu Ala Glu Val Gly Gly Leu Leu
  1          5          10          15
Glu Pro Arg Arg Gln Arg Leu Gln
          20

<210> 153
<211> 771
<212> DNA
<213> Homo sapiens

<400> 153
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catgtggggt gtgccaggta gagaaacagg aagtcaatca tctgtgacag tctctattct
gtcgttttgc tccttggtat ttgatttgca ctatatttag ttgaagcctg ttcactgttt
aaaaccggag gtatcttcaa aggcattggag acctgggtcc agtaaatgtc ccaccagtgg
ggtatagaaa gcatgctcat gaccctgccg tgtcgtctga ggtaccctgt cttatcctag
tggttcagga agagaaaacg cagtttgcac tttcaagaca gcttctctaa ggctggcatg
ttatctcctt gctttgcttt ttgccgtttt aaaatgtgta attgttccag cattccaatg
gtcttgtgca tagcagggga ctgtaaccaa aaataaacat gtatttgtgt aattggtttg

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<210> 159  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 159  
 Met Glu Thr Trp Phe Gln  
 1 5

<210> 160  
 <211> 75  
 <212> DNA  
 <213> Homo sapiens

<400> 160  
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 ccgttcttat cctag 75

<210> 161  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 161  
 Met Ser His Gln Trp Gly Ile Glu Ser Met Leu Met Thr Leu Pro Cys  
 1 5 10 15  
 Arg Leu Arg Tyr Pro Phe Leu Ser  
 20

<210> 162  
 <211> 48  
 <212> DNA  
 <213> Homo sapiens

<400> 162  
 atgctcatga ccctgccgtg tcgtctgagg tacccttct taccctag 48

<210> 163  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 163  
 Met Leu Met Thr Leu Pro Cys Arg Leu Arg Tyr Pro Phe Leu Ser  
 1 5 10 15

<210> 164  
 <211> 42  
 <212> DNA  
 <213> Homo sapiens

<400> 164  
 atgaccctgc cgtgtcgtct gaggtaccgc ttcttaccct ag 42

<210> 165

<211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 165  
 Met Thr Leu Pro Cys Arg Leu Arg Tyr Pro Phe Leu Ser  
 1 5 10

<210> 166  
 <211> 99  
 <212> DNA  
 <213> Homo sapiens

<400> 166  
 atgttatctc cttgctttgc tttttgccgt tttaaaatgt gtaattgttc cagcattcca 60  
 atggtcttgt gcatagcagg ggactgtaac caaaaataa 99

<210> 167  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 167  
 Met Leu Ser Pro Cys Phe Ala Phe Cys Arg Phe Lys Met Cys Asn Cys  
 1 5 10 15  
 Ser Ser Ile Pro Met Val Leu Cys Ile Ala Gly Asp Cys Asn Gln Lys  
 20 25 30

<210> 168  
 <211> 63  
 <212> DNA  
 <213> Homo sapiens

<400> 168  
 atgtgtaatt gttccagcat tccaatgggc ttgtgcatag caggggactg taacccaaaaa 60  
 taa 63

<210> 169  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 169  
 Met Cys Asn Cys Ser Ser Ile Pro Met Val Leu Cys Ile Ala Gly Asp  
 1 5 10 15  
 Cys Asn Gln Lys  
 20

<210> 170  
 <211> 39  
 <212> DNA  
 <213> Homo sapiens

<400> 170  
 atggtcttgt gcatagcagg ggactgtaac caaaaataa 39

<210> 171  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 171  
 Met Val Leu Cys Ile Ala Gly Asp Cys Asn Gln Lys  
 1 5 10

<210> 172  
 <211> 177  
 <212> DNA  
 <213> Homo sapiens

<400> 172  
 atgtatttgt gtaattgggt tgaagaagtc ttgaatagct ctttactgtc ttacttgggg 60  
 ttgataagat ttgagtgttt gcaatttttt actaaatgta gctccaaagt cttaaattggc 120  
 ttgtttgttc ttaaactggt aattgatgaa actgtgcata agtttacaat gtactaa 177

<210> 173  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 173  
 Met Tyr Leu Cys Asn Trp Phe Glu Glu Val Leu Asn Ser Ser Leu Leu  
 1 5 10 15  
 Ser Tyr Leu Gly Leu Ile Arg Phe Glu Cys Leu Gln Phe Phe Thr Lys  
 20 25 30  
 Cys Ser Ser Lys Val Leu Asn Gly Leu Phe Val Leu Lys Leu Leu Ile  
 35 40 45  
 Asp Glu Thr Val His Lys Phe Thr Met Tyr  
 50 55

<210> 174  
 <211> 27  
 <212> DNA  
 <213> Homo sapiens

<400> 174  
 atggcttgtt tggtcttaaa ctgttaa 27

<210> 175  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 175  
 Met Ala Cys Leu Phe Leu Asn Cys  
 1 5

<210> 176  
 <211> 75  
 <212> DNA  
 <213> Homo sapiens

<400> 176  
 atgaaactgt gcataagttt acaatgtact aacttatttt gcttattata tatagtgttt 60  
 tattggaaat tgtaa 75

<210> 177  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 177  
 Met Lys Leu Cys Ile Ser Leu Gln Cys Thr Asn Leu Phe Cys Leu Leu  
 1 5 10 15  
 Tyr Ile Val Phe Tyr Trp Lys Leu  
 20

<210> 178  
 <211> 33  
 <212> DNA  
 <213> Homo sapiens

<400> 178  
 atgatgaaaa taaagattag tgtttccatt taa 33

<210> 179  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 179  
 Met Met Lys Ile Lys Ile Ser Val Ser Ile  
 1 5 10

<210> 180  
 <211> 30  
 <212> DNA  
 <213> Homo sapiens

<400> 180  
 atgaaaataa agattagtgt ttccatttaa 30

<210> 181  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 181  
 Met Lys Ile Lys Ile Ser Val Ser Ile  
 1 5

<210> 182  
 <211> 42  
 <212> DNA  
 <213> Homo sapiens

<400> 182

atgtttttatc ctcccataaa aaaaaaaaaa aaaagggcgg cc

42

<210> 183

<211> 14

<212> PRT

<213> Homo sapiens

<400> 183

Met Phe Tyr Pro Pro Ile Lys Lys Lys Lys Lys Arg Ala Ala

1

5

10

<210> 184

<211> 1669

<212> DNA

<213> Homo sapiens

<400> 184

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cctatagaga	gctacaacaa	tgcccaaaag	aaagccaaaag	agaagatctg	ccagggtgtc	120
tgctatgctt	gtgccagtta	caccagaggt	gaagcctaaa	agaacatcaa	gttcaaggaa	180
aatgaagaca	aaaagtgata	tgatggaaga	aaacatagat	acaagtgccc	aagcagttgc	240
tgaaccacag	caagaagcag	ttgttgaaga	agactacaat	gaaaatgcta	aaaatggaga	300
agccaaaatt	acagaggcac	cagcttctga	aaaagaaatt	gtggaagtaa	aagaagaaaa	360
tattgaagat	gccacagaaa	agggaggaga	aaagaaagaa	gcagtggcag	cagaagtaaa	420
aatgaagaa	gaagatcaga	aagaagatga	agaagatcaa	aacgaagaga	aaggggaagc	480
tggaagaa	gacaaagatg	aaaaagggga	agaagatgga	aaagaggata	aaaatggaaa	540
tgagaaagga	gaagatgcaa	aagagaaaga	agatggaaaa	aaaggtgaag	acggaaaagg	600
aatggagaa	gatggaaaag	agaaaggaga	agatgaaaaa	gaggaagaag	acagaaaaga	660
aacaggagtt	ggaaaagaga	atgaagatgg	aaaagagaag	ggagataaaa	aagaggggaa	720
agatgtaaaa	gtcaaagaag	atgaaaaaga	gagagaagat	ggaaaagaag	atgaaggtgg	780
aatgaggaa	gaagctggaa	aagagaaaaga	agatttaaaa	gaagaggaag	aaggaaaaa	840
ggaagatgag	atcaaagaag	atgatggaaa	aaaagaggag	ccacagagta	ttgtttaaaa	900
ctgccctatg	tagtttcata	atttggtaac	atgtaccttc	atgttgtaaa	gttaatagag	960
ataaatat	ttatcaaaaa	ttttataaac	acagcctttc	tttagcattg	atttaatttc	1020
agaacatctt	catattgatt	attagccata	aagtttctaa	catgaaacat	ttatctataa	1080
atattgtgat	tatagttagt	gaatacatag	aaaaaaatat	gctttcaact	ttgtgagtga	1140
atctcgtgtg	gtgtaagtta	tatgtcaaat	ctttgaattt	taattttact	ccttttatac	1200
atgtgataat	ttcataaagt	gagggatccc	aaaaaaagag	tttcatccca	acattcttgt	1260
tctgcaggtt	gcttttataa	agaaggtgaa	ctattttcat	gtaatgttaa	gagttaaact	1320
tatctttccc	aaatataact	ttattattag	cttgggaaaa	atgaaattgt	attcccattt	1380
ttaaaataaa	tacaaatgtt	tatttcagaa	gggcagtttt	gattatatgt	gaatacacaa	1440
atcttactgg	atcttatctta	ataaaaagac	tctgacgatg	attgtgtttt	gttatatctt	1500
caaaaatata	gctagtgaag	tattgtgctt	aatttttttc	tattgtgtta	ttcatgaaaa	1560
tatttaatat	tactgacat	aaaattaata	taaagtataa	ttcaccattt	taattataat	1620
aaaaataaag	tatataattc	aaaaaaaaaa	aaaaaaaaaa	agggcgcc		1669

<210> 185

<211> 819

<212> DNA

<213> Homo sapiens

<400> 185

atgccccaaa	gaaagccaaa	gagaagatct	gccaggttgt	ctgctatgct	tgtgccagtt	60
acaccagagg	tgaagcctaa	aagaacatca	agttcaagga	aatgaagac	aaaaagtgat	120
atgatggaag	aaaacataga	tacaagtgcc	caagcagttg	ctgaaaccaa	gcaagaagca	180



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gttgttgaag aagactacaa tgaaaatgct aaaaatggag aagccaaaat tacagaggca 240
ccagcttctg aaaaagaaat tgtggaagta aaagaagaaa atattgaaga tgccacagaa 300
aagggaggag aaaagaaaga agcagtggca gcagaagtaa aaaatgaaga agaagatcag 360
aaagaagatg aagaagatca aaacgaagag aaaggggaag ctggaaaaga agacaaagat 420
gaaaaagggg aagaagatgg aaaagaggat aaaaatggaa atgagaaagg agaagatgca 480
aaagagaaaag aagatggaaa aaaaggtgaa gacggaaaag gaaatggaga agatggaaaa 540
gagaaaggag aagatgaaaa agaggaagaa gacagaaaag aaacaggagt tggaaaagag 600
aatgaagatg gaaaagagaa gggagataaa aaagagggga aagatgtaaa agtcaaagaa 660
gatgaaaaag agagagaaga tggaaaagaa gatgaagggtg gaaatgagga agaagctgga 720
aaagagaaaag aagattttaa agaagaggaa gaaggaaaag aggaagatga gatcaaagaa 780
gatgatggaa aaaaagagga gccacagagt attgtttaa 819

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<210> 186
<211> 272
<212> PRT
<213> Homo sapiens

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<400> 186
Met Pro Lys Arg Lys Pro Lys Arg Arg Ser Ala Arg Leu Ser Ala Met
 1          5          10          15
Leu Val Pro Val Thr Pro Glu Val Lys Pro Lys Arg Thr Ser Ser Ser
      20          25          30
Arg Lys Met Lys Thr Lys Ser Asp Met Met Glu Glu Asn Ile Asp Thr
      35          40          45
Ser Ala Gln Ala Val Ala Glu Thr Lys Gln Glu Ala Val Val Glu Glu
      50          55          60
Asp Tyr Asn Glu Asn Ala Lys Asn Gly Glu Ala Lys Ile Thr Glu Ala
      65          70          75          80
Pro Ala Ser Glu Lys Glu Ile Val Glu Val Lys Glu Glu Asn Ile Glu
      85          90          95
Asp Ala Thr Glu Lys Gly Gly Glu Lys Lys Glu Ala Val Ala Ala Glu
      100         105         110
Val Lys Asn Glu Glu Glu Asp Gln Lys Glu Asp Glu Glu Asp Gln Asn
      115         120         125
Glu Glu Lys Gly Glu Ala Gly Lys Glu Asp Lys Asp Glu Lys Gly Glu
      130         135         140
Glu Asp Gly Lys Glu Asp Lys Asn Gly Asn Glu Lys Gly Glu Asp Ala
      145         150         155         160
Lys Glu Lys Glu Asp Gly Lys Lys Gly Glu Asp Gly Lys Gly Asn Gly
      165         170         175
Glu Asp Gly Lys Glu Lys Gly Glu Asp Glu Lys Glu Glu Glu Asp Arg
      180         185         190
Lys Glu Thr Gly Val Gly Lys Glu Asn Glu Asp Gly Lys Glu Lys Gly
      195         200         205
Asp Lys Lys Glu Gly Lys Asp Val Lys Val Lys Glu Asp Glu Lys Glu
      210         215         220
Arg Glu Asp Gly Lys Glu Asp Glu Gly Gly Asn Glu Glu Glu Ala Gly
      225         230         235         240
Lys Glu Lys Glu Asp Leu Lys Glu Glu Glu Glu Gly Lys Glu Glu Asp
      245         250         255
Glu Ile Lys Glu Asp Asp Gly Lys Lys Glu Glu Pro Gln Ser Ile Val
      260         265         270

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<210> 187
<211> 774

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<212> DNA  
 <213> Homo sapiens

<400> 187  
 atgcttgtgc cagttacacc agaggtgaag cctaaaagaa catcaagttc aaggaaaatg 60  
 aagacaaaaa gtgatatgat ggaagaaaac atagatacaa gtgccaagc agttgctgaa 120  
 accaagcaag aagcagttgt tgaagaagac tacaatgaaa atgctaaaaa tggagaagcc 180  
 aaaattacag aggcaccagc ttctgaaaaa gaaattgtgg aagtaaaaga agaaaatatt 240  
 gaagatgccca cagaaaaggg aggagaaaaag aaagaagcag tggcagcaga agtaaaaaat 300  
 gaagaagaag atcagaaaaga agatgaagaa gatcaaaacg aagagaaaagg ggaagctgga 360  
 aaagaagaca aagatgaaaa aggggaagaa gatggaaaag aggataaaaa tggaaatgag 420  
 aaaggagaag atgcaaaaaga gaaagaagat ggaaaaaaag gtgaagacgg aaaaggaaat 480  
 ggagaagatg gaaaagagaa aggagaagat gaaaaagagg aagaagacag aaaagaaaca 540  
 ggagttggaa aagagaatga agatggaaaa gagaaggagg ataaaaaaga ggggaaagat 600  
 gtaaaagtca aagaagatga aaaagagaga gaagatggaa aagaagatga aggtggaaat 660  
 gaggaagaag ctggaaaaga gaaagaagat ttaaaagaag aggaagaagg aaaagaggaa 720  
 gatgagatca aagaagatga tggaaaaaaa gaggagccac agagtattgt ttaa 774

<210> 188  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<400> 188  
 Met Leu Val Pro Val Thr Pro Glu Val Lys Pro Lys Arg Thr Ser Ser  
 1 5 10 15  
 Ser Arg Lys Met Lys Thr Lys Ser Asp Met Met Glu Glu Asn Ile Asp  
 20 25 30  
 Thr Ser Ala Gln Ala Val Ala Glu Thr Lys Gln Glu Ala Val Val Glu  
 35 40 45  
 Glu Asp Tyr Asn Glu Asn Ala Lys Asn Gly Glu Ala Lys Ile Thr Glu  
 50 55 60  
 Ala Pro Ala Ser Glu Lys Glu Ile Val Glu Val Lys Glu Glu Asn Ile  
 65 70 75 80  
 Glu Asp Ala Thr Glu Lys Gly Gly Glu Lys Lys Glu Ala Val Ala Ala  
 85 90 95  
 Glu Val Lys Asn Glu Glu Glu Asp Gln Lys Glu Asp Glu Glu Asp Gln  
 100 105 110  
 Asn Glu Glu Lys Gly Glu Ala Gly Lys Glu Asp Lys Asp Glu Lys Gly  
 115 120 125  
 Glu Glu Asp Gly Lys Glu Asp Lys Asn Gly Asn Glu Lys Gly Glu Asp  
 130 135 140  
 Ala Lys Glu Lys Glu Asp Gly Lys Lys Gly Glu Asp Gly Lys Gly Asn  
 145 150 155 160  
 Gly Glu Asp Gly Lys Glu Lys Gly Glu Asp Glu Lys Glu Glu Glu Asp  
 165 170 175  
 Arg Lys Glu Thr Gly Val Gly Lys Glu Asn Glu Asp Gly Lys Glu Lys  
 180 185 190  
 Gly Asp Lys Lys Glu Gly Lys Asp Val Lys Val Lys Glu Asp Glu Lys  
 195 200 205  
 Glu Arg Glu Asp Gly Lys Glu Asp Glu Gly Gly Asn Glu Glu Glu Ala  
 210 215 220  
 Gly Lys Glu Lys Glu Asp Leu Lys Glu Glu Glu Gly Lys Glu Glu  
 225 230 235 240  
 Asp Glu Ile Lys Glu Asp Asp Gly Lys Lys Glu Glu Pro Gln Ser Ile

<400> 190																
Met	Lys	Thr	Lys	Ser	Asp	Met	Met	Glu	Glu	Asn	Ile	Asp	Thr	Ser	Ala	
1				5					10					15		
Gln	Ala	Val	Ala	Glu	Thr	Lys	Gln	Glu	Ala	Val	Val	Glu	Glu	Asp	Tyr	
			20					25					30			
Asn	Glu	Asn	Ala	Lys	Asn	Gly	Glu	Ala	Lys	Ile	Thr	Glu	Ala	Pro	Ala	
		35					40					45				
Ser	Glu	Lys	Glu	Ile	Val	Glu	Val	Lys	Glu	Glu	Asn	Ile	Glu	Asp	Ala	
	50					55					60					
Thr	Glu	Lys	Gly	Gly	Glu	Lys	Lys	Glu	Ala	Val	Ala	Ala	Glu	Val	Lys	
65					70					75					80	
Asn	Glu	Glu	Glu	Asp	Gln	Lys	Glu	Asp	Glu	Glu	Asp	Gln	Asn	Glu	Glu	
				85					90					95		
Lys	Gly	Glu	Ala	Gly	Lys	Glu	Asp	Lys	Asp	Glu	Lys	Gly	Glu	Glu	Asp	
			100					105					110			
Gly	Lys	Glu	Asp	Lys	Asn	Gly	Asn	Glu	Lys	Gly	Glu	Asp	Ala	Lys	Glu	
		115					120					125				
Lys	Glu	Asp	Gly	Lys	Lys	Gly	Glu	Asp	Gly	Lys	Gly	Asn	Gly	Glu	Asp	
	130					135					140					
Gly	Lys	Glu	Lys	Gly	Glu	Asp	Glu	Lys	Glu	Glu	Glu	Asp	Arg	Lys	Glu	
145					150					155					160	
Thr	Gly	Val	Gly	Lys	Glu	Asn	Glu	Asp	Gly	Lys	Glu	Lys	Gly	Asp	Lys	
				165					170					175		
Lys	Glu	Gly	Lys	Asp	Val	Lys	Val	Lys	Glu	Asp	Glu	Lys	Glu	Arg	Glu	
			180					185					190			
Asp	Gly	Lys	Glu	Asp	Glu	Gly	Gly	Asn	Glu	Glu	Glu	Ala	Gly	Lys	Glu	
		195					200					205				

Lys Glu Asp Leu Lys Glu Glu Glu Glu Gly Lys Glu Glu Asp Glu Ile  
 210 215 220  
 Lys Glu Asp Asp Gly Lys Lys Glu Glu Pro Gln Ser Ile Val  
 225 230 235

<210> 191  
 <211> 699  
 <212> DNA  
 <213> Homo sapiens

<400> 191  
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 gttgttggaag aagactacaa tgaaaatgct aaaaatggag aagccaaaat tacagaggca 120  
 ccagcttctg aaaaagaaat tgtggaagta aaagaagaaa atattgaaga tgccacagaa 180  
 aagggaggag aaaagaaaga agcagtggca gcagaagtaa aaaatgaaga agaagatcag 240  
 aaagaagatg aagaagatca aaacgaagag aaaggggaag ctggaaaaga agacaaagat 300  
 gaaaaagggg aagaagatgg aaaagaggat aaaaatggaa atgagaaagg agaagatgca 360  
 aaagagaaaag aagatggaaa aaaaggtgaa gacggaaaag gaaatggaga agatggaaaa 420  
 gagaaaggag aagatgaaaa agaggaagaa gacagaaaag aaacaggagt tggaaaagag 480  
 aatgaagatg gaaaagagaa gggagataaa aaagagggga aagatgtaaa agtcaaagaa 540  
 gatgaaaaag agagagaaga tggaaaagaa gatgaaggtg gaaatgagga agaagctgga 600  
 aaagagaaaag aagattttaa agaagaggaa gaaggaaaag aggaagatga gatcaaagaa 660  
 gatgatggaa aaaaagagga gccacagagt attgttttaa 699

<210> 192  
 <211> 232  
 <212> PRT  
 <213> Homo sapiens

<400> 192  
 Met Met Glu Glu Asn Ile Asp Thr Ser Ala Gln Ala Val Ala Glu Thr  
 1 5 10 15  
 Lys Gln Glu Ala Val Val Glu Glu Asp Tyr Asn Glu Asn Ala Lys Asn  
 20 25 30  
 Gly Glu Ala Lys Ile Thr Glu Ala Pro Ala Ser Glu Lys Glu Ile Val  
 35 40 45  
 Glu Val Lys Glu Glu Asn Ile Glu Asp Ala Thr Glu Lys Gly Gly Glu  
 50 55 60  
 Lys Lys Glu Ala Val Ala Ala Glu Val Lys Asn Glu Glu Glu Asp Gln  
 65 70 75 80  
 Lys Glu Asp Glu Glu Asp Gln Asn Glu Glu Lys Gly Glu Ala Gly Lys  
 85 90 95  
 Glu Asp Lys Asp Glu Lys Gly Glu Glu Asp Gly Lys Glu Asp Lys Asn  
 100 105 110  
 Gly Asn Glu Lys Gly Glu Asp Ala Lys Glu Lys Glu Asp Gly Lys Lys  
 115 120 125  
 Gly Glu Asp Gly Lys Gly Asn Gly Glu Asp Gly Lys Glu Lys Gly Glu  
 130 135 140  
 Asp Glu Lys Glu Glu Glu Asp Arg Lys Glu Thr Gly Val Gly Lys Glu  
 145 150 155 160  
 Asn Glu Asp Gly Lys Glu Lys Gly Asp Lys Lys Glu Gly Lys Asp Val  
 165 170 175  
 Lys Val Lys Glu Asp Glu Lys Glu Arg Glu Asp Gly Lys Glu Asp Glu  
 180 185 190  
 Gly Gly Asn Glu Glu Glu Ala Gly Lys Glu Lys Glu Asp Leu Lys Glu

195 200 205  
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 210 215 220  
 Lys Glu Glu Pro Gln Ser Ile Val  
 225 230

<210> 193  
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<400> 193  
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 gcttctgaaa aagaaattgt ggaagtaaaa gaagaaaata ttgaagatgc cacagaaaag 180  
 ggaggagaaa agaaagaagc agtggcagca gaagtaaaaa atgaagaaga agatcagaaa 240  
 gaagatgaag aagatcaaaa cgaagagaaa ggggaagctg gaaaagaaga caaagatgaa 300  
 aaaggggaag aagatggaaa agaggataaa aatggaaatg agaaaggaga agatgcaaaa 360  
 gagaaagaag atggaaaaaa aggtgaagac ggaaaaggaa atggagaaga tggaaaagag 420  
 aaaggagaag atgaaaaaga ggaagaagac agaaaagaaa caggagttgg aaaagagaat 480  
 gaagatggaa aagagaaggg agataaaaaa gaggggaaaag atgtaaaagt caaagaagat 540  
 gaaaaagaga gagaagatgg aaaagaagat gaaggtggaa atgaggaaga agctggaaaa 600  
 gagaaagaag atttaaaaga agaggaagaa ggaaaagagg aagatgagat caaagaagat 660  
 gatggaaaaa aagaggagcc acagagtatt gtttaa 696

<210> 194  
 <211> 231  
 <212> PRT  
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<400> 194  
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 Gln Glu Ala Val Val Glu Glu Asp Tyr Asn Glu Asn Ala Lys Asn Gly  
 20 25 30  
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 35 40 45  
 Val Lys Glu Glu Asn Ile Glu Asp Ala Thr Glu Lys Gly Gly Glu Lys  
 50 55 60  
 Lys Glu Ala Val Ala Ala Glu Val Lys Asn Glu Glu Asp Gln Lys  
 65 70 75 80  
 Glu Asp Glu Glu Asp Gln Asn Glu Glu Lys Gly Glu Ala Gly Lys Glu  
 85 90 95  
 Asp Lys Asp Glu Lys Gly Glu Glu Asp Gly Lys Glu Asp Lys Asn Gly  
 100 105 110  
 Asn Glu Lys Gly Glu Asp Ala Lys Glu Lys Glu Asp Gly Lys Lys Gly  
 115 120 125  
 Glu Asp Gly Lys Gly Asn Gly Glu Asp Gly Lys Glu Lys Gly Glu Asp  
 130 135 140  
 Glu Lys Glu Glu Glu Asp Arg Lys Glu Thr Gly Val Gly Lys Glu Asn  
 145 150 155 160  
 Glu Asp Gly Lys Glu Lys Gly Asp Lys Lys Glu Gly Lys Asp Val Lys  
 165 170 175  
 Val Lys Glu Asp Glu Lys Glu Arg Glu Asp Gly Lys Glu Asp Glu Gly  
 180 185 190

Gly Asn Glu Glu Glu Ala Gly Lys Glu Lys Glu Asp Leu Lys Glu Glu  
 195 200 205  
 Glu Glu Gly Lys Glu Glu Asp Glu Ile Lys Glu Asp Asp Gly Lys Lys  
 210 215 220  
 Glu Glu Pro Gln Ser Ile Val  
 225 230

<210> 195  
 <211> 72  
 <212> DNA  
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 ttgtggaagt aa 72

<210> 196  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 196  
 Met Lys Met Leu Lys Met Glu Lys Pro Lys Leu Gln Arg His Gln Leu  
 1 5 10 15  
 Leu Lys Lys Lys Leu Trp Lys  
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<210> 197  
 <211> 66  
 <212> DNA  
 <213> Homo sapiens

<400> 197  
 atgctaaaaa tggagaagcc aaaattacag aggcaccagc ttctgaaaaa gaaattgtgg 60  
 aagtaa 66

<210> 198  
 <211> 21  
 <212> PRT  
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<400> 198  
 Met Leu Lys Met Glu Lys Pro Lys Leu Gln Arg His Gln Leu Leu Lys  
 1 5 10 15  
 Lys Lys Leu Trp Lys  
 20

<210> 199  
 <211> 57  
 <212> DNA  
 <213> Homo sapiens

<400> 199  
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<210> 200  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 200  
 Met Glu Lys Pro Lys Leu Gln Arg His Gln Leu Leu Lys Lys Lys Leu  
 1 5 10 15  
 Trp Lys

<210> 201  
 <211> 51  
 <212> DNA  
 <213> Homo sapiens

<400> 201  
 atgccacaga aaagggagga gaaaagaaaag aagcagtggc agcagaagta a 51

<210> 202  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 202  
 Met Pro Gln Lys Arg Glu Glu Lys Arg Lys Lys Gln Trp Gln Gln Lys  
 1 5 10 15

<210> 203  
 <211> 306  
 <212> DNA  
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<400> 203  
 atgaagaaga agatcagaaa gaagatgaag aagatcaaaa cgaagagaaa ggggaagctg 60  
 gaaaagaaga caaagatgaa aaaggggaag aagatggaaa agaggataaa aatggaaatg 120  
 agaaaggaga agatgcaaaa gagaaagaag atggaaaaaa aggtgaagac ggaaaaggaa 180  
 atggagaaga tggaaaagag aaaggagaag atgaaaaaga ggaagaagac agaaaagaaa 240  
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 atgtaa 306

<210> 204  
 <211> 101  
 <212> PRT  
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<400> 204  
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 Glu Lys Arg Ile Lys Met Glu Met Arg Lys Glu Lys Met Gln Lys Arg  
 35 40 45  
 Lys Lys Met Glu Lys Lys Val Lys Thr Glu Lys Glu Met Glu Lys Met  
 50 55 60

Glu Lys Arg Lys Glu Lys Met Lys Lys Arg Lys Lys Thr Glu Lys Lys  
65 70 75 80  
Gln Glu Leu Glu Lys Arg Met Lys Met Glu Lys Arg Arg Glu Ile Lys  
85 90 95  
Lys Arg Gly Lys Met  
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<210> 205  
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<400> 205  
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aagaagatgg aaaaaaagggt gaagacggaa aaggaaatgg agaagatgga aaagagaaag 180  
gagaagatga aaaagaggaa gaagacagaa aagaaacagg agttggaaaa gagaatgaag 240  
atggaaaaga gaagggagat aaaaaagagg ggaaagatgt aa 282

<210> 206  
<211> 93  
<212> PRT  
<213> Homo sapiens

<400> 206  
Met Lys Lys Ile Lys Thr Lys Arg Lys Gly Lys Lys Leu Glu Lys Lys Thr  
1 5 10 15  
Lys Met Lys Lys Gly Lys Lys Met Glu Lys Arg Ile Lys Met Glu Met  
20 25 30  
Arg Lys Glu Lys Met Gln Lys Arg Lys Lys Met Glu Lys Lys Val Lys  
35 40 45  
Thr Glu Lys Glu Met Glu Lys Met Glu Lys Arg Lys Glu Lys Met Lys  
50 55 60  
Lys Arg Lys Lys Thr Glu Lys Lys Gln Glu Leu Glu Lys Arg Met Lys  
65 70 75 80  
Met Glu Lys Arg Arg Glu Ile Lys Lys Arg Gly Lys Met  
85 90

<210> 207  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 207  
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caaaagagaa agaagatgga aaaaaagggtg aagacggaaa aggaaatgga gaagatggaa 120  
aagagaaagg agaagatgaa aaagaggaag aagacagaaa agaaacagga gttgaaaaag 180  
agaatgaaga tggaaaagag aaggagagata aaaaagaggg gaaagatgta a 231

<210> 208  
<211> 76  
<212> PRT  
<213> Homo sapiens

<400> 208







20 25 30  
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 35 40 45  
 Arg Glu Ile Lys Lys Arg Gly Lys Met  
 50 55

<210> 217  
 <211> 156  
 <212> DNA  
 <213> Homo sapiens

<400> 217  
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 aagagaaggg agataaaaaa gaggggaaag atgtaa 156

<210> 218  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 218  
 Met Glu Lys Lys Val Lys Thr Glu Lys Glu Met Glu Lys Met Glu Lys  
 1 5 10 15  
 Arg Lys Glu Lys Met Lys Lys Arg Lys Lys Thr Glu Lys Lys Gln Glu  
 20 25 30  
 Leu Glu Lys Arg Met Lys Met Glu Lys Arg Arg Glu Ile Lys Lys Arg  
 35 40 45  
 Gly Lys Met  
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<210> 219  
 <211> 126  
 <212> DNA  
 <213> Homo sapiens

<400> 219  
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 atgtaa 126

<210> 220  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 220  
 Met Glu Lys Met Glu Lys Arg Lys Glu Lys Met Lys Lys Arg Lys Lys  
 1 5 10 15  
 Thr Glu Lys Lys Gln Glu Leu Glu Lys Arg Met Lys Met Glu Lys Arg  
 20 25 30  
 Arg Glu Ile Lys Lys Arg Gly Lys Met  
 35 40

<210> 221









<213> Homo sapiens

<400> 244

Met Tyr Leu His Val Val Lys Leu Ile Glu Ile Asn Ile Phe Ile Lys  
 1 5 10 15  
 Asn Phe Ile Asn Thr Ala Phe Leu  
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<210> 245

<211> 75

<212> DNA

<213> Homo sapiens

<400> 245

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 ctttcaactt tgtga 75

<210> 246

<211> 24

<212> PRT

<213> Homo sapiens

<400> 246

Met Lys His Leu Ser Ile Asn Phe Val Ile Ile Val Val Glu Tyr Ile  
 1 5 10 15  
 Glu Lys Asn Met Leu Ser Thr Leu  
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<210> 247

<211> 18

<212> DNA

<213> Homo sapiens

<400> 247

atgctttcaa ctttgtga 18

<210> 248

<211> 5

<212> PRT

<213> Homo sapiens

<400> 248

Met Leu Ser Thr Leu  
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<210> 249

<211> 15

<212> DNA

<213> Homo sapiens

<400> 249

atgtcaaadc tttga 15

<210> 250

<211> 4



<212> PRT  
<213> Homo sapiens

<400> 250  
Met Ser Asn Leu  
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<210> 251  
<211> 81  
<212> DNA  
<213> Homo sapiens

<400> 251  
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aaattgtatt cccattttta a 81

<210> 252  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 252  
Met Leu Arg Val Lys Leu Ile Phe Pro Lys Tyr Asn Phe Ile Ile Ser  
1 5 10 15  
Leu Gly Lys Met Lys Leu Tyr Ser His Phe  
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<210> 253  
<211> 24  
<212> DNA  
<213> Homo sapiens

<400> 253  
atgaaattgt attcccatTT ttaa 24

<210> 254  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 254  
Met Lys Leu Tyr Ser His Phe  
1 5

<210> 255  
<211> 27  
<212> DNA  
<213> Homo sapiens

<400> 255  
atgttttattt cagaaggga gttttga 27

<210> 256  
<211> 8  
<212> PRT

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1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

1 5

<213> Homo sapiens

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<213> Homo sapiens

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24

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1 5

<213> Homo sapiens

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120  
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240  
300  
360

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ccgagattca	aatctccgat	ttcccatttg	ggggcaagtt	tttttcttca	ccttcaatat	540
gagaattcag	cgaacttgaa	agaaaaatca	tctgtgagtt	ccttcagggt	ctcactcata	600
gtcatgatcc	ttcagaggga	atatgcaactg	gogagtttaa	agtaagggt	atgatatttg	660
atggtcccaa	agtacggcag	ctgcaaaaag	tagtggaagg	aaattgtcta	cgtgtcttgg	720
aaaaattagt	taggaatttg	gatgggtaaa	aggtaccctt	gccttactcc	atcttatttt	780
cttagccccc	tttgagtgtt	ttaactgggt	tcatgtccta	gtaggaagtg	cattctccat	840
cctcatcctc	tgccctccca	ggaagtcagt	gattgtcttt	ttgggcttcc	cctccaaagg	900
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aattgaagag	atctttgtgc	cacacaggat	tttttttttt	ttttaagaaa	aacctataga	1020
tgaaaaatta	ctaataaaac	tgtgtgtacg	tgtctgtgcg	tgcaacataa	aaatacagta	1080
gcacctaaag	agcttgaatc	ttggttcctg	taaaatttca	aattgatgtg	gtattaataa	1140
aaaaaaaaaa	aacccaaaaa	aaaaaaaaaa	aaaagggcgg	cc		1182

<210> 262  
 <211> 24  
 <212> DNA  
 <213> Homo sapiens

<400> 262	
atgccatctg	ataaaaaaga atag
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<210> 263  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 263	
Met Pro Ser Asp Lys Lys Glu	
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<210> 264  
 <211> 228  
 <212> DNA  
 <213> Homo sapiens

<400> 264						
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ccactatccc	caggaagga	aaggctccgc	catttgggaa	agtggtttct	acgtcactgg	120
acaccgggtc	tgagcattag	tttgagaact	cgttcccgaa	tgtgctttcc	tccctctccc	180
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<210> 265  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 265			
Met Glu Ser Gly Thr Glu Arg Glu Ser Ala Gly Met Leu Arg Trp Arg			
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Ser Leu Pro Leu Pro Leu Ser Pro Gly Lys Glu Arg Leu Arg His Leu			
	20	25	30
Gly Lys Trp Phe Leu Arg His Trp Thr Pro Val Leu Ser Ile Ser Leu			
	35	40	45

Arg Thr Arg Ser Arg Met Cys Phe Pro Pro Ser Pro Leu Pro Thr Ser  
 50 55 60  
 Ser Leu Ile Asn Lys Val Val Leu Phe Leu Leu  
 65 70 75

<210> 266  
 <211> 195  
 <212> DNA  
 <213> Homo sapiens

<400> 266  
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 ttgggaaagt ggtttctacg tcaactggaca ccggttctga gcattagttt gagaactcgt 120  
 tcccgaatgt gctttcctcc ctctcccctg cccacctcaa gttaataaaa taagggttga 180  
 cttttcttac tataa 195

<210> 267  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 267  
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 Arg Leu Arg His Leu Gly Lys Trp Phe Leu Arg His Trp Thr Pro Val  
 20 25 30  
 Leu Ser Ile Ser Leu Arg Thr Arg Ser Arg Met Cys Phe Pro Pro Ser  
 35 40 45  
 Pro Leu Pro Thr Ser Ser Leu Ile Asn Lys Val Val Leu Phe Leu Leu  
 50 55 60

<210> 268  
 <211> 69  
 <212> DNA  
 <213> Homo sapiens

<400> 268  
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 ttactataa 69

<210> 269  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 269  
 Met Cys Phe Pro Pro Ser Pro Leu Pro Thr Ser Ser Leu Ile Asn Lys  
 1 5 10 15  
 Val Val Leu Phe Leu  
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<210> 270  
 <211> 87  
 <212> DNA  
 <213> Homo sapiens

<400> 270  
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 ggctcctcag ttattgagtt tttgtga 87

<210> 271  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 271  
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 1 5 10 15  
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 20 25

<210> 272  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 272  
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 ccgatttccc atttgggggc aagttttttt cttcaccttc aatatgagaa ttcagcgaac 180  
 ttgaaagaaa aatcatctgt gagttccttc aggttctcac tcatagtcac gataccttcag 240  
 agggaatatg cactggcgag tttaaagtaa 270

<210> 273  
 <211> 89  
 <212> PRT  
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<400> 273  
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 Asp Leu Phe Pro Arg Phe Lys Ser Pro Ile Ser His Leu Gly Ala Ser  
 35 40 45  
 Phe Phe Leu His Leu Gln Tyr Glu Asn Ser Ala Asn Leu Lys Glu Lys  
 50 55 60  
 Ser Ser Val Ser Ser Phe Arg Phe Ser Leu Ile Val Met Ile Leu Gln  
 65 70 75 80  
 Arg Glu Tyr Ala Leu Ala Ser Leu Lys  
 85

<210> 274  
 <211> 21  
 <212> DNA  
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<400> 274  
 atgagaattc agcgaacttg a 21

<210> 275

Figure 1 consists of 12 histograms arranged in a single row. Each histogram represents the frequency distribution of the number of non-zero elements in the vector  $x$  for a specific value of  $n$ . The x-axis for all histograms is 'Number of non-zero elements in  $x$ ' with major ticks at 0, 20, 40, 60, 80, 100, and 120. The y-axis is 'Frequency' with major ticks at 0, 2, 4, 6, 8, and 10. The histograms are labeled with  $n$  values: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, and 120. As  $n$  increases, the distribution becomes more concentrated around  $n$ , and the peak frequency increases.

42

18

<400> 281  
 Met Ile Phe Asp Gly Pro Lys Val Arg Gln Leu Gln Lys Val Val Glu  
 1 5 10 15  
 Gly Asn Cys Leu Arg Val Leu Glu Lys Leu Val Arg Asn Leu Asp Gly  
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<210> 282  
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 <212> DNA  
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<210> 283  
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 <212> PRT  
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<400> 283  
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<210> 284  
 <211> 54  
 <212> DNA  
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<400> 284  
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<210> 285  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 285  
 Met Gly Lys Arg Tyr Pro Cys Leu Thr Pro Ser Tyr Phe Leu Ser Pro  
 1 5 10 15  
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<210> 286  
 <211> 15  
 <212> DNA  
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<400> 286  
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<210> 287  
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<400> 287  
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<210> 288  
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<400> 288  
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<210> 289  
<211> 15  
<212> PRT  
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<400> 289  
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<210> 290  
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<400> 290  
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<210> 292  
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taccagaac tctttgtctg ggtcagtcaa gaaccatttc caaacaagga catggaggga 180  
aggcttccta aggggaagact tccctgtcca aaggaagtga accgcaagaa gaacgatgag 240  
acaaacgctg cctccctgac tccactgggc agcagtgaac tccgctcccc aagaatcagt 300  
tacctccact ttttttaatc gtaacacctc catttgtatt acatatggtg tatgggtatt 360  
gatgaggtca tggatatcata tatgggattt ttttctgtgt aaatcatcaa gtataagaag 420  
aaactatggg actctgagcc ttgctttaga gaatttacag tggacaaata ggtgtcatca 480  
aaccagtttt taatcattct gactcaagtg aaaacgctca gaatttcaca ctgtgaatcc 540  
cgtttacaac ccttacaggt gggccttcag gcctgggttcg ctacaacaat gtcttcacac 600  
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<213> Homo sapiens

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51

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<211> 16

<212> PRT

<213> Homo sapiens

<400> 302

Met Gly Ile Asp Glu Val Met Val Ser Tyr Met Gly Phe Phe Ser Val  
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<211> 132

<212> DNA

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<400> 303

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<400> 304

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<213> Homo sapiens

<400> 305

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<212> PRT

<213> Homo sapiens

<400> 306

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<210> 307



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Figure 1: Schematic representation of the experimental design. The diagram shows a flow from 'Study 1' to 'Study 2'. Study 1 involves 'Pretest' and 'Main Study'. Study 2 involves 'Pretest' and 'Main Study'. The 'Main Study' in both studies involves 'Participants' and 'Conditions'. The 'Conditions' are 'Control' and 'Intervention'. The 'Intervention' is 'Cognitive Behavioral Therapy (CBT)'. The 'Control' is 'Waitlist Control'. The 'Participants' are 'Students' and 'Teachers'. The 'Study 1' and 'Study 2' are 'Randomized Controlled Trials (RCTs)'.

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**a** Body weight (g)

**b** Food intake (g)

**c** Water intake (ml)

**d** Progesterone (ng/ml)

**e** Testosterone (ng/ml)

**f** Estrone (ng/ml)

**g** Estradiol (ng/ml)

**h** Androstenedione (ng/ml)

**i** Corticosterone (ng/ml)

**j** Body weight (g)

**k** Food intake (g)

**l** Relative body weight of dams

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<212> DNA  
<213> Homo sapiens

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<213> Homo sapiens



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	245	250
Asn Val Lys Glu Leu Leu Cys Cys Ser Met Glu Glu Tyr Gln Gln Ser		255
	260	265
Gln Val Lys Leu Gln Asp Phe Phe Gln Cys Gly Thr Tyr Val Cys Pro		270
	275	280
Asp Ala Leu Asn Leu Gly Leu Pro Glu Trp Val Leu Val Ala Leu Ala		285
	290	295
Lys Gly Gln Leu Ser Pro Phe Ile Ser Asp Ala Leu Val Leu Arg Arg		300
	305	310
Thr Ile Leu Pro Thr Gln Val Glu Asn Met Gln Gln Pro Asn Ala His		315
	320	325
Arg Ile Ser Gln Pro Ile Arg Gln Ile Ile Tyr Gly Leu Leu Leu Asn		330
	335	340
Ala Ser Pro His Leu Asp Lys Thr Ser Trp Asn Ala Leu Pro Pro Gln		345
	350	355
Pro Leu Ala Phe Ser Glu Val Glu Arg Ile Asn Lys Asn Ile Arg Thr		360
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	380	385
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145					150					155					160
Ile	Pro	Ala	Lys	Cys	Phe	Ser	Leu	Asp	Ala	Phe	Cys	His	His	Phe	Ser
			165					170						175	
Asn	Met	Asn	Lys	Ala	Leu	Leu	Pro	Leu	Phe	Ala	Val	Leu	Cys	Gly	Asn
			180					185					190		
Asp	His	Val	Asn	Leu	Pro	Ile	Met	Glu	Thr	Phe	Leu	Ser	Lys	Ala	Arg
	195					200						205			
Leu	Pro	Leu	Gly	Ala	Thr	Ser	Ser	Lys	Gly	Arg	Arg	His	His	Arg	Ile
	210					215						220			
Leu	Gly	Leu	Leu	Asn	Trp	Leu	Ser	His	Phe	Ala	Asn	Pro	Thr	Glu	Ala
225					230					235					240
Leu	Asp	Asn	Val	Leu	Lys	Tyr	Leu	Pro	Lys	Lys	Asp	Arg	Glu	Asn	Val
			245						250					255	
Lys	Glu	Leu	Leu	Cys	Cys	Ser	Met	Glu	Glu	Tyr	Gln	Gln	Ser	Gln	Val
		260						265					270		
Lys	Leu	Gln	Asp	Phe	Phe	Gln	Cys	Gly	Thr	Tyr	Val	Cys	Pro	Asp	Ala
	275						280						285		



<210> 379  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 379  
 Met Ile Leu Leu Gln Met Leu Tyr Lys Asn Ser Leu Asn His Cys Leu  
 1 5 10 15  
 Leu Val Ile Tyr Ala His Met Leu Tyr  
 20 25

<210> 380  
 <211> 63  
 <212> DNA  
 <213> Homo sapiens

<400> 380  
 atgttgtaga aaaattcttt gaatcactgt ttgcttgtaa tatatgccca tatgttgtag 60  
 tag 63

<210> 381  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 381  
 Met Leu Tyr Lys Asn Ser Leu Asn His Cys Leu Leu Val Ile Tyr Ala  
 1 5 10 15  
 His Met Leu Tyr  
 20

<210> 382  
 <211> 33  
 <212> DNA  
 <213> Homo sapiens

<400> 382  
 atgcccata gttgtattag atggaggatg tga 33

<210> 383  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 383  
 Met Pro Ile Cys Cys Ile Arg Trp Arg Met  
 1 5 10

<210> 384  
 <211> 12  
 <212> DNA  
 <213> Homo sapiens

<400> 384  
 atgttgtaga ag 12



















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<210> 408
<211> 33
<212> DNA
<213> Homo sapiens
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<210> 409
<211> 10
<212> PRT
<213> Homo sapiens
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<210> 410
<211> 870
<212> DNA
<213> Homo sapiens
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<210> 411
<211> 289
<212> PRT
<213> Homo sapiens
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93



<210> 414  
 <211> 678  
 <212> DNA  
 <213> Homo sapiens

<400> 414  
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 gtctgtccag atgccttgaa tcttggttta ccagaatggg tattagtggc ttttagctaaa 120  
 ggccagctat ctcctttcat cagtgatgct ttggctctaa gacggacat tcttcccaca 180  
 cagggtgaaa acatgcagca accaaatgcc cacagaatat ctcagcccat caggcaaatac 240  
 atctatgggc ttctttttaa tgctcacca catctggaca agacatcctg gaatgcattg 300  
 cctctcagc ctctagcttt cagtgaagtg gaaaggatta ataaaaatat cagaacctca 360  
 atcattgatg cagtagaact ggccaaggat cattctgact taagcagatt gactgagctc 420  
 tccttgagga ggccggcagat gcttctgtta gaaaccctga aggtgaaaca gaccattctg 480  
 gagccaatcc ctacttcact gaagttgccc attgctgtca gttgctactg gttgcagcac 540  
 accgagacca aagcaaagct acatcatcta caatccttac tgctcacaat gctagtgggg 600  
 cccttgattg ccataatcaa cagccctgga aatgtggacc ctgtaccag gcaggctcag 660  
 tgtcttgctc ctgcctag 678

<210> 415  
 <211> 225  
 <212> PRT  
 <213> Homo sapiens

<400> 415  
 Met Glu Glu Tyr Gln Gln Ser Gln Val Lys Leu Gln Asp Phe Phe Gln  
 1 5 10 15  
 Cys Gly Thr Tyr Val Cys Pro Asp Ala Leu Asn Leu Gly Leu Pro Glu  
 20 25 30  
 Trp Val Leu Val Ala Leu Ala Lys Gly Gln Leu Ser Pro Phe Ile Ser  
 35 40 45  
 Asp Ala Leu Val Leu Arg Arg Thr Ile Leu Pro Thr Gln Val Glu Asn  
 50 55 60  
 Met Gln Gln Pro Asn Ala His Arg Ile Ser Gln Pro Ile Arg Gln Ile  
 65 70 75 80  
 Ile Tyr Gly Leu Leu Leu Asn Ala Ser Pro His Leu Asp Lys Thr Ser  
 85 90 95  
 Trp Asn Ala Leu Pro Pro Gln Pro Leu Ala Phe Ser Glu Val Glu Arg  
 100 105 110  
 Ile Asn Lys Asn Ile Arg Thr Ser Ile Ile Asp Ala Val Glu Leu Ala  
 115 120 125  
 Lys Asp His Ser Asp Leu Ser Arg Leu Thr Glu Leu Ser Leu Arg Arg  
 130 135 140  
 Arg Gln Met Leu Leu Leu Glu Thr Leu Lys Val Lys Gln Thr Ile Leu  
 145 150 155 160  
 Glu Pro Ile Pro Thr Ser Leu Lys Leu Pro Ile Ala Val Ser Cys Tyr  
 165 170 175  
 Trp Leu Gln His Thr Glu Thr Lys Ala Lys Leu His His Leu Gln Ser  
 180 185 190  
 Leu Leu Leu Thr Met Leu Val Gly Pro Leu Ile Ala Ile Ile Asn Ser  
 195 200 205  
 Pro Gly Asn Val Asp Pro Val Pro Arg Gln Ala Gln Cys Leu Ala Pro  
 210 215 220  
 Arg  
 225

<210> 416  
 <211> 21  
 <212> DNA  
 <213> Homo sapiens

<400> 416  
 atgtctgtcc agatgccttg a

21

<210> 417  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 417  
 Met Ser Val Gln Met Pro  
 1 5

<210> 418  
 <211> 24  
 <212> DNA  
 <213> Homo sapiens

<400> 418  
 atgggtatta gtggctttag ctaa

24

<210> 419  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 419  
 Met Gly Ile Ser Gly Phe Ser  
 1 5

<210> 420  
 <211> 15  
 <212> DNA  
 <213> Homo sapiens

<400> 420  
 atgctttggt cctaa

15

<210> 421  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 421  
 Met Leu Trp Ser  
 1

<210> 422  
 <211> 486  
 <212> DNA  
 <213> Homo sapiens



<400> 422  
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 ctttttaaag cctcaccaca tctggacaag acatcctgga atgcattgcc tcctcagcct 120  
 ctagctttca gtgaagtgga aaggattaat aaaaatatca gaacctcaat cattgatgca 180  
 gtagaactgg ccaaggatca ttctgactta agcagattga ctgagctctc cttgaggagg 240  
 cggcagatgc ttctgttaga aaccctgaag gtgaaacaga ccattctgga gccaatccct 300  
 acttcactga agttgcccac tgctgtcagt tgctactggt tgcagcacac cgagacaaa 360  
 gcaaagctac atcatctaca atccttactg ctcaaatgc tagtggggcc cttgattgcc 420  
 ataatacaaca gccctggaaa tgtggaccct gtaccocaggc aggctcagtg tcttgctcct 480  
 cgctag 486

<210> 423  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<400> 423  
 Met Gln Gln Pro Asn Ala His Arg Ile Ser Gln Pro Ile Arg Gln Ile  
 1 5 10 15  
 Ile Tyr Gly Leu Leu Leu Asn Ala Ser Pro His Leu Asp Lys Thr Ser  
 20 25 30  
 Trp Asn Ala Leu Pro Pro Gln Pro Leu Ala Phe Ser Glu Val Glu Arg  
 35 40 45  
 Ile Asn Lys Asn Ile Arg Thr Ser Ile Ile Asp Ala Val Glu Leu Ala  
 50 55 60  
 Lys Asp His Ser Asp Leu Ser Arg Leu Thr Glu Leu Ser Leu Arg Arg  
 65 70 75 80  
 Arg Gln Met Leu Leu Leu Glu Thr Leu Lys Val Lys Gln Thr Ile Leu  
 85 90 95  
 Glu Pro Ile Pro Thr Ser Leu Lys Leu Pro Ile Ala Val Ser Cys Tyr  
 100 105 110  
 Trp Leu Gln His Thr Glu Thr Lys Ala Lys Leu His His Leu Gln Ser  
 115 120 125  
 Leu Leu Leu Thr Met Leu Val Gly Pro Leu Ile Ala Ile Ile Asn Ser  
 130 135 140  
 Pro Gly Asn Val Asp Pro Val Pro Arg Gln Ala Gln Cys Leu Ala Pro  
 145 150 155 160  
 Arg

<210> 424  
 <211> 54  
 <212> DNA  
 <213> Homo sapiens

<400> 424  
 atgcccacag aatatctcag cccatcaggc aaatcatcta tgggcttctt ttaa 54

<210> 425  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 425  
 Met Pro Thr Glu Tyr Leu Ser Pro Ser Gly Lys Ser Ser Met Gly Phe



5

$\langle 211 \rangle$  240

<213> Homo sapiens

<400> 432

atgcttctgt	tagaaaccct	gaaggtgaaa	cagaccattc	tggagccaat	ccctacttca	60
ctgaagttgc	ccattgctgt	cagttgctac	tggttgcacg	acaccgagac	caaagcaaag	120
ctacatcatc	tacaatcctt	actgtctaca	atgctagtgg	ggcccttgat	tgccataatc	180
aacagccctg	gaaatgtgga	ccctgtaccc	aggcaggctc	agtgtcttgc	tcctcgctag	240

<211> 79

<213> Homo sapiens

<400> 433

Met	Leu	Leu	Leu	Leu	Thr	Leu	Lys	Val	Lys	Gln	Thr	Ile	Leu	Glu	Pro
1				5					10					15	
Ile	Pro	Thr	Ser	Leu	Lys	Leu	Pro	Ile	Ala	Val	Ser	Cys	Tyr	Trp	Leu
			20					25					30		
Gln	His	Thr	Glu	Thr	Lys	Ala	Lys	Leu	His	His	Leu	Gln	Ser	Leu	Leu
		35					40					45			
Leu	Thr	Met	Leu	Val	Gly	Pro	Leu	Ile	Ala	Ile	Ile	Asn	Ser	Pro	Gly
	50					55					60				
Asn	Val	Asp	Pro	Val	Pro	Arg	Gln	Ala	Gln	Cys	Leu	Ala	Pro	Arg	
65					70					75					

<211> 90

<213> Homo sapiens

<400> 434

atgctagtgg ggcccttgat tgcataatc aacagccctg gaaatgtgga cctgtaccc 60  
agcgaggctc agtgtcttgc tctcgtctag 90

<211> 29

<213> Homo sapiens

<400> 435

Met Leu Val Gly Pro Leu Ile Ala Ile Ile Asn Ser Pro Gly Asn Val  
1 5 10 15  
Asp Pro Val Pro Arg Gln Ala Gln Cys Leu Ala Pro Arg  
20 25

<211> 54

<213> Homo sapiens





[illegible]

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<210> 447
<211> 65
<212> PRT
<213> Homo sapiens
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<210> 448
<211> 57
<212> DNA
<213> Homo sapiens
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<210> 449
<211> 18
<212> PRT
<213> Homo sapiens
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<210> 450
<211> 231
<212> DNA
<213> Homo sapiens
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102



agaacagaa taccagctgt tctaagaaca gagggagaac cactgcacac accaagtgtt 120  
 ggtatgaggg aaacaaccgg tttgggttgt taa 153

<210> 455  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 455  
 Met Pro Pro Leu Lys Tyr Ser Tyr Gln Lys Val Asp Gln Ile Gln Lys  
 1 5 10 15  
 Lys Lys Gly Arg Arg Asn Arg Ile Pro Ala Val Leu Arg Thr Glu Gly  
 20 25 30  
 Glu Pro Leu His Thr Pro Ser Val Gly Met Arg Glu Thr Thr Gly Leu  
 35 40 45  
 Gly Cys  
 50

<210> 456  
 <211> 30  
 <212> DNA  
 <213> Homo sapiens

<400> 456  
 atgagggaaa caaccggttt gggttggttaa 30

<210> 457  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 457  
 Met Arg Glu Thr Thr Gly Leu Gly Cys  
 1 5

<210> 458  
 <211> 48  
 <212> DNA  
 <213> Homo sapiens

<400> 458  
 atggttgaaa acttagagga acatagtgag gcctccaaca ttgaataa 48

<210> 459  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 459  
 Met Val Glu Asn Leu Glu Glu His Ser Glu Ala Ser Asn Ile Glu  
 1 5 10 15

<210> 460  
 <211> 15  
 <212> DNA



Variable	Mean	SD	Min	Max
Age	35.2	12.5	18	65
Gender	Male	10.5	0	20
Female	19.5	0	0	20
Marital status	Married	15.2	0	20
Single	4.8	0	0	10
Divorced	0.5	0	0	1
Widowed	0.2	0	0	1
Education	High school	12.5	0	20
College	15.2	0	0	20
Postgraduate	2.3	0	0	5
Occupation	Manager	10.5	0	20
Engineer	8.2	0	0	15
Teacher	5.5	0	0	10
Doctor	2.5	0	0	5
Lawyer	1.5	0	0	3
Business	1.5	0	0	3
Unemployed	0.5	0	0	1
Retired	0.5	0	0	1
Income	15.2	10.5	0	40
Health	10.5	5.2	0	20
Stress	12.5	6.5	0	20
Life satisfaction	15.2	7.5	0	20
Work satisfaction	12.5	6.5	0	20
Family satisfaction	10.5	5.2	0	20
Community satisfaction	8.2	4.5	0	20
Overall satisfaction	12.5	6.5	0	20

15

<400> 461  
Met Tyr Leu Ile  
1

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<210> 462
<211> 979
<212> DNA
<213> Homo sapiens
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<400>	462								
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agaagcggaa	gcggaagaag	aacgcccttc	ccgagcccgt	gccgcccccc	cgtgccgccc				120
ccgcccccac	ccacgtccgc	tccccgcagc	ccccgccccc	cgcccccgct	cccgcacgag				180
acgagctgcc	ggactggaac	gagggtgctcc	cgccctggga	tcgggaggag	gacgaggtgt				240
accgcgcagg	gccgtaccac	cctttcccca	actacatccg	gccgcggaca	ctgcagccgc				300
cctcggcctt	gcgccgcgcg	cactaccacc	acgccttgcc	gccttcgcgc	cactatcccc				360
gccgggaggc	ccaggcgcg	cgcgcgccag	aggaggcgga	ggcggaggag	cgccggetgc				420
aggagcagga	ggagctggag	aattacatcg	agcacgtgct	gctccggcgc	ccgtgactgc				480
ccttccccta	accgcccccg	cgcgcccccg	ccgcgcgcgc	gcgcgggcgc	ccccctccgt				540
gttgcccgc	ccccctcggt	gtttgcatgc	gccccggccc	tgccccctgg	ccccgccct				600
gtccccgggc	tgcgtcgga	cetgccagac	ccccctcccg	ggtcctgagc	ccgaactccc				660
agagctcacc	cgcggtgac	cgggggccag	cccaggagg	ggggtggttt	gtgcgagttc				720
ccttgccacg	cggggccccc	gccccatcaa	gtccctctgg	ggacgtcccc	gtcgaaaacc				780
ggaaaaagca	gttcagtta	atttgttgaa	gtgtgtctgt	ctccagccct	tcgggcctcc				840
cacgagcccc	tccagcctct	ccaagtctgt	gtgaattgac	cccttctttc	ctttctctgt				900
tgtaaatacc	cctcacggag	gaaatagttt	tgctaagaaa	taaaagtgac	tattttaaaa				960
aaaaaaaaaa	aqqqcgcc								979

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<210> 463
<211> 243
<212> DNA
<213> Homo sapiens
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[illegible]

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<210> 464
<211> 80
<212> PRT
<213> Homo sapiens
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<400> 464  
 Met Arg Pro Gly Pro Ala Pro Trp Pro Cys Pro Cys Pro Arg Ala Ala  
 1 5 10 15  
 Ser Gly Pro Ala Arg Pro Pro Ser Arg Val Leu Ser Pro Asn Ser Gln  
 20 25 30  
 Ser Ser Pro Ala Gly Asp Arg Gly Pro Ala Gln Glu Gly Gly Trp Phe  
 35 40 45  
 Val Arg Val Pro Leu Pro Arg Gly Ala Pro Ala Pro Ser Ser Pro Ser  
 50 55 60  
 Gly Asp Val Pro Val Gly Asn Arg Lys Lys Gln Phe Gln Leu Ile Val  
 65 70 75 80

<210> 465  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Ologonucleotide

<400> 465  
 tgtaaaacga cggccagt 18

<210> 466  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide

<400> 466  
 caggaaacag ctatgacc 18